

AMPEX

PR-10

SERIES



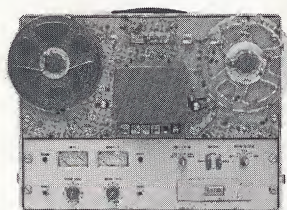
COMPACT STUDIO QUALITY RECORDERS

An advanced concept in recorder design, the PR-10 series provides Ampex Professional Recording Standards in a new, compact instrument. These recorders assure studio quality and performance for all field and studio applications... for broadcasters... recording studios... educators... churches... industry... and advanced recordists. Major new engineering advances permit COMPACT SIZE WHILE RETAINING FEATURES AND PERFORMANCE OF STUDIO CONSOLES.

PR-10 MODELS...

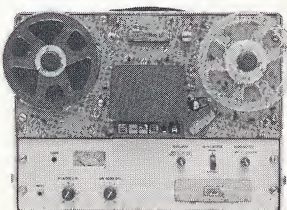
PR-10 FEATURES...

- MODULAR DESIGN ALLOWS PORTABLE OR RACK MOUNTING
- ONLY 14 INCHES OF RACK SPACE REQUIRED
- COMPACT ELECTRONICS WITH FRONT PANEL ADJUSTMENTS
- PUSHBUTTON RELAY/SOLENOID CONTROLS
- COMPLETE REMOTE CONTROL OF ALL FUNCTIONS
- PLUG-IN EQUALIZERS AND TRANSFORMERS
- HYSTERESIS SYNCHRONOUS DRIVE MOTOR
- ADVANCED 4-POSITION HEAD ASSEMBLY
- 4-TRACK PLAYBACK (WITH OPTIONAL HEAD)



STEREOPHONIC MODEL PR-10-2

The versatile PR-10-2 provides 1) complete stereophonic record and reproduce, 2) monophonic record and reproduce with many of the new two-channel techniques now being used, 3) conventional monophonic use (1/2 track). Separate-track erase head in combination with "record/safe" selector permits half-track recording of either track, sound on sound, cue tracks, and other special effects. Fourth head position can be used for quarter track playback head.

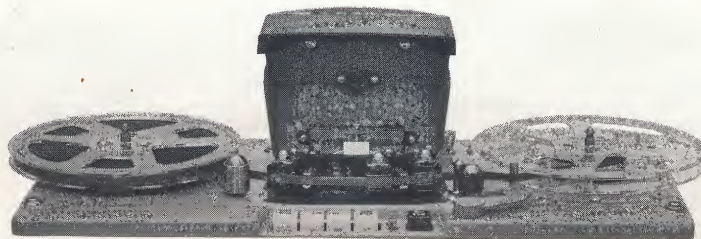


MONOPHONIC MODEL PR-10-1

The PR-10-1 is a one channel recorder available with full or half-track heads. Transports are the same as the PR-10-2. Single-channel electronics have the same professional design and construction as the two-channel version, but with a built-in mixer that can mix line and microphone or two microphones (by using a plug-in mike preamp in the line input). The PR-10-1 can be used with AME or CCIR plug-in equalizers.

CONVENIENCE, DEPENDABILITY AND LONG LIFE ARE BUILT INTO THE PR-10'S ADVANCED DESIGN

- Rigid, noise-insulated top plate of special aircraft style construction insures permanent alignment of all components for precision tape handling
- Shielded, hinged head cover fully exposes heads for easy tape editing
- Head alignment "locked" to eliminate periodic need of head adjustment
- Error-proof pushbutton operation
- Simple, guided, straight-line tape threading
- Tape lifters permit touch cueing on fast wind and rewind
- Positive, dependable speed change
- Provision for fourth head (four-track stereo, sync head, etc.)
- Motor cuts off to permit "standby" position when safety switch arm is released
- Lifetime, solenoid operated self-regulating brakes seldom need adjustment



- Hysteresis, synchronous motor for timing accuracy. Reserve power insures against stalling or overloading
- Exclusive electrodynamic drive assures permanent, adjustment-free tape handling
- Each transport component (clutches, motor, solenoids) is unitized, plugs into color coded socket on control box
- Record/Safe selector protects against accidental erasure
- Two 3" side-by-side VU meters permit simultaneous reading and balancing of channels
- All frequently used electronic alignment controls accessible through exclusive front panel door, eliminating need to remove unit from case or rack
- Individual A-B switches on each channel for quick comparison between original and recorded program

NEW ADDITION to the famous Ampex PR-10 Series—the PR-10-4 professional 4-track (quarter track) recorder/reproducer.

SPECIAL FEATURES

- 4 two-channel heads: 4-track erase, 4-track record, 4-track playback, 2-track playback. Mono and stereo.
- Easy selection of 4-track or 2-track playback.
- Signal-to-noise better than 55 db at 3 3/4 and 7 1/2 ips; maintains all other PR-10-2 specifications.
- PLUS, all other PR-10 features.

PR-10 ACCESSORIES

MX-10

FOUR POSITION TWO-CHANNEL, MONOPHONIC/STEREO MIXER

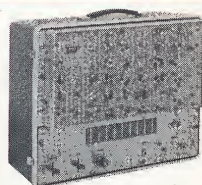
The MX-10 mixer was designed to extend the flexibility and operation of the PR-10 recorders, permitting up to four microphones, or two mikes and two lines, to be controlled and fed to either or both output channels.



SA-10

PROFESSIONAL SPEAKER/AMPLIFIER MONITOR SYSTEM

The finest, most flexible unit ever designed for professional monitoring. Provides quality, power, and overload characteristics essential to critical listening and evaluation. Powerful 40 watt amplifier with new stabilizing power-demand circuitry. Efficient, long excursion speaker in separate tuned duct enclosure assures lowest distortion at critical low frequencies.



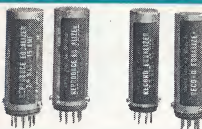
REMOTE CONTROL

Greatly expands use of recorder. Plugs into receptacle provided and permits recorder to be controlled from any desired location. Duplicates all functions of record, play, fast forward and fast rewind buttons on tape transport. Record button prevented from functioning when record selector is in "safe" position. Available as a boxed or flush plate unit.



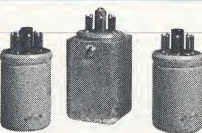
PLUG-IN EQUALIZERS

Interchangeable units provide NAB, ABE or CCIR curves appropriate to tape speed used. Equalizers for other curves (to meet special requirements) available on special order.



PLUG-IN INPUT UNITS

Interchangeable units match various inputs such as zero loss transformer for balanced bridging; 40 db miniaturized microphone preamplifier for close pickup conditions and/or high output microphones; 60 db miniaturized preamplifier for distant pickup conditions or low output microphones.



PR-10 SPECIFICATIONS

General performance of the PR-10 is described in terms of specifications which are measured by professional standard methods. These are the guaranteed minimum specifications the user can expect in long-term operation.

OVERALL FREQUENCY RESPONSE:

30-15,000 cps ± 2 db at 15 ips
40-12,000 cps ± 2 db at 7 1/2 ips
30-15,000 cps ± 2 db, -4 db at 7 1/2 ips
40-6,000 cps ± 2 db at 3 3/4 ips
40-8,000 cps ± 2 db, -4 db at 3 3/4 ips

SIGNAL TO NOISE RATIO:

(Peak record level to unweighted noise. Includes bias, erase and playback amplifier noise.)
55 db at 15 and 7 1/2 ips (half track or two track)
60 db at 15 and 7 1/2 ips (full track), 60 cps; 55 db, 50 cps
50 db at 3 3/4 ips

FLUTTER AND WOW:

Less than 0.15% rms at 15 ips
0.18% rms at 7 1/2 ips
0.25% rms at 3 3/4 ips

TIMING ACCURACY:

$\pm 0.25\%$ at 15 and 7 1/2 ips
 $\pm 0.40\%$ at 3 3/4 ips

OUTPUT:

$+4$ dbm into 600 ohm balanced or unbalanced load. Cannon XL connectors. Single and two-channel headphone jacks provided.

INPUTS:

PR-10-1: Two inputs, individual gain controls on each—
No. 1—Low impedance microphone input.
No. 2—Unbalanced bridging with provisions for plug-in line transformer or low impedance plug-in microphone preamp.

PR-10-2: Two inputs, one per channel. Both inputs are unbalanced bridging with provision for plug-in line transformers or low impedance plug-in microphone preamps. The MX-10 accessory mixer is designed to feed unbalanced bridge inputs.

SPEEDS:

7 1/2 and 15 ips, or 3 3/4 and 7 1/2 ips

POWER REQUIRED:

117 volts AC—60 cycles, 1.84 amp (215 watts)

RACK SPACE:

Transport 8 3/4" x 19" x 6" D
Electronics 5 1/4" x 19" x 5 7/8" D

WEIGHT:

Unmounted 44 lbs; Portable 53 lbs

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SIGNAL TO NOISE RATIO

PR-10-4, better than 55 db at 3 3/4 and 7 1/2 ips.

SPEEDS

PR-10-4, 3 3/4 and 7 1/2 ips only.